

# 7

# Delaware

# DeSSA

## Grade 3 MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



$4 \times 6 = 24$

$2 + 3 = 5$

# 7 Delaware DeSSA Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math:  
operations, fractions, measurement, data, area, shapes, answer keys,  
and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Delaware DeSSA. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Delaware has bay beaches, farm roads, small towns, marsh paths, and busy crossings, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and move carefully through each short step.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Delaware students, each trail moves through bay beaches, farm roads, small towns, marsh paths, and busy crossings: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Delaware Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Delaware DeSSA path.

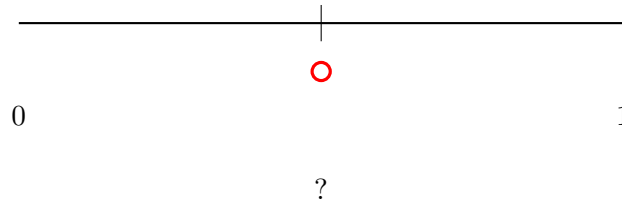


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- 1) Identify the fraction at the marked point on this number line from 0 to 1 divided into 2 equal parts.



- A.  $\frac{1}{2}$ 
 C.  $\frac{1}{4}$   
 B.  $\frac{1}{3}$ 
 D.  $\frac{2}{3}$
- 2) Mia measures juice in three containers. Container 1 has 1000 mL, Container 2 has 500 mL, and Container 3 has 500 mL. What is the total?

- A. 1000 mL
  C. 2000 mL  
 B. 1500 mL
  D. 3000 mL

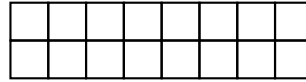


- 3) How many unit squares fit in this rectangle?

- A. 7 units
  C. 15 units  
 B. 9 units
  D. 10 units



4) Mia covers a 2 by 8 rectangle with unit square tiles. Here is the grid:



Count the unit squares. How many are there?

- A. 10 unit squares (the perimeter)       C. 8 unit squares  
 B. 16 unit squares       D. 20 unit squares
- 5) A bell rings at 1 : 16 PM. What time will it be 29 minutes later?

- A. 1 : 35 PM       C. 2 : 00 PM  
 B. 1 : 45 PM       D. 1 : 40 PM



6)

Using the bars, which is true?

- A.  $\frac{1}{2} > \frac{1}{3}$  (halves are larger pieces)       D.  $\frac{1}{3} > \frac{1}{2}$  (1 out of 3 is more than 1 out of 2)  
 B.  $\frac{1}{2} < \frac{1}{3}$  ( $2 < 3$ )  
 C.  $\frac{1}{2} = \frac{1}{3}$
- 7) Look at this sequence: 20, 25, 30, 35, 40.  
What is the rule?

- A. Subtract 5 each time       C. Multiply by 2 each time  
 B. Skip count by 3       D. Add 5 each time



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8) Ava has 3 bags with 6 marbles in each bag. Which multiplication sentence matches?

A.  $3 + 6 = 9$

C.  $6 + 6 = 12$

B.  $3 \times 3 = 9$

D.  $3 \times 6 = 18$

9) A picture graph shows ribbons. Each star is 2 ribbons. Look at the graph.

Key: ★ = 2 ribbons

Red: ★ ★ ★ ★

Blue: ★ ★

A. Red has 4 ribbons, blue has 2 ribbons.

C. Red has 6 ribbons, blue has 4 ribbons.

B. Red has 8 ribbons, blue has 4 ribbons.

D. Red has 8 ribbons, blue has 8 ribbons.

10) Noah reads  $\frac{4}{8}$  of a book. What is equivalent?

A.  $\frac{1}{3}$

C.  $\frac{3}{4}$

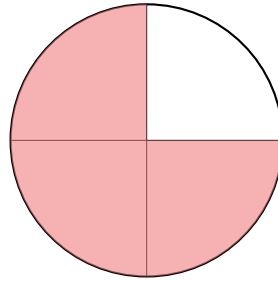
B.  $\frac{1}{2}$

D.  $\frac{2}{3}$

11) A rectangular kitchen table is 8 feet long and 6 feet wide. What is the area that the table covers?



- 1) A circle is divided into 4 equal parts. If 3 parts are shaded, what fraction of the circle is NOT shaded?



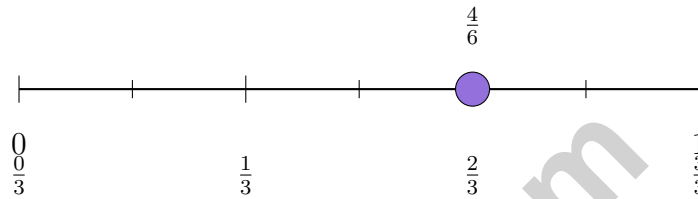
- A.  $\frac{1}{4}$                        C.  $\frac{3}{4}$   
 B.  $\frac{2}{4}$                        D.  $\frac{4}{4}$
- 2) Sam bought 18 pencils. He wants to put them into 3 boxes equally. How many pencils go in each box?
- A. 6                               C. 15  
 B. 5                               D. 21
- 3) Ben divides 35 trading cards equally among 5 friends. How many cards does each friend get?
- A. 30                               C. 6  
 B. 8                               D. 7
- 4) Eli makes baskets with 10 apples in each basket. If Eli makes 8 baskets, how many apples are needed?
- A. 18 (added instead of multiplied)       C. 810 (digit concatenation)  
 B. 80                               D. 800 (added two zeros)



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5) Which is larger:  $\frac{2}{3}$  or  $\frac{2}{4}$ ?

6) Look at the number line. What fraction equals  $\frac{4}{6}$ ?



- A.  $\frac{1}{3}$
- B.  $\frac{2}{3}$

- C.  $\frac{1}{2}$
- D.  $\frac{1}{4}$



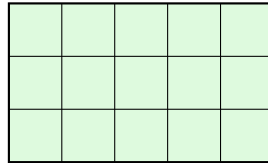
7) What is the area of the rectangle?

- A. 7 sq units
- B. 12 sq units
- C. 14 sq units
- D. 24 sq units

1) A class starts at 9 : 15 AM and ends at 10 : 05 AM. How long is the class?

- A. 50 minutes                       C. 60 minutes  
 B. 55 minutes                       D. 45 minutes

2) How many unit squares (each 1 inch by 1 inch) cover a rectangle that is 5 inches long and 3 inches wide?



5 inches

- A. 8 unit squares                       C. 15 unit squares  
 B. 12 unit squares                       D. 20 unit squares

2 cm



10 cm

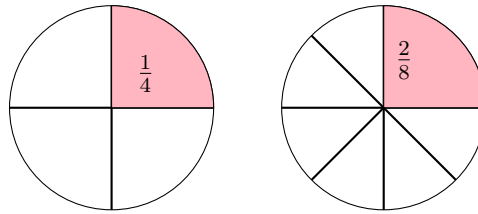
3)

What is the area of this long, narrow rectangle?

- A. 12 sq cm                       C. 24 sq cm  
 B. 20 sq cm                       D. 40 sq cm



4) Look at the pies. Which statement is true?



- A. They show the same amount       C. The right pie is larger  
 B. The left pie is larger       D. They are not equal

5) What is  $28 \div 4$ ?

- A. 6       C. 8  
 B. 7       D. 4

6) Which symbol makes this true?  $\frac{1}{2}$  \_\_\_\_\_  $\frac{1}{4}$

- A. <       C. =  
 B. >       D. None of these

7) Which rectangle measurement uses the distributive property correctly?

- A.  $4 \times (6 + 3) = (4 \times 6) + (4 \times 3) = 24 + 12 = 36$        C.  $4 \times (6 + 3) = 4 + 6 + 3 = 13$   
 B.  $4 \times (6 + 3) = (4 + 6) + (4 + 3) = 13 + 7 = 20$        D.  $4 \times (6 + 3) = (6 \times 3) + (4) = 22$

8) Lily needs to measure 400 grams of sugar. The scale shows 150 g so far. How many more grams does she need?

- A. 150 g       C. 350 g  
 B. 250 g       D. 400 g



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## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.NF.A.2a)** The first and only tick mark on a line divided into 2 parts is at  $\frac{1}{2}$ .
- 2) **Choice C is correct.** **(3.MD.A.2)** Add:  $1000 + 500 + 500 = 2000$  mL.
- 3) **Choice D is correct.** **(3.MD.C.7)** The grid shows 5 columns and 2 rows. Area =  $5 \times 2 = 10$  square units. You can also count:  $5 + 5 = 10$  (two rows of five).
- 4) **Choice B is correct.** **(3.MD.C.5b)** Count the rows: 2 rows. Count across: 8 unit squares per row. Total:  $8 + 8 = 16$  unit squares cover the rectangle.
- 5) **Choice B is correct.** **(3.MD.A.1)**  $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$ .
- 6) **Choice A is correct.** **(3.NF.A.3d)** Same numerator (1): both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half  $>$  one third. Visually: the green shaded area is larger in the first bar.
- 7) **Choice D is correct.** **(3.OA.D.9)**  $20 + 5 = 25$ ,  $25 + 5 = 30$ ,  $30 + 5 = 35$ , etc. Each number increases by 5.
- 8) **Choice D is correct.** **(3.OA.A.1)** Three bags with 6 marbles each means 3 groups of 6. So  $3 \times 6 = 6 + 6 + 6 = 18$ .
- 9) **Choice B is correct.** **(3.MD.B.3)** Red:  $4 \text{ stars} \times 2 = 8$ . Blue:  $2 \text{ stars} \times 2 = 4$ .
- 10) **Choice B is correct.** **(3.NF.A.3)**  $\frac{4}{8}$  and  $\frac{1}{2}$  both equal half of a whole.
- 11) **The correct answer is 48 square feet.** **(3.MD.C.7b)** Area = length  $\times$  width, so  $8 \times 6 = 48$  square feet.
- 12) **Choice C is correct.** **(3.NF.A.3b)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2:  $4 \times 2 = 8$ . So  $\frac{1}{4} = \frac{2}{8}$ .
- 13) **Choice B is correct.** **(3.MD.C.7d)** Top rectangle:  $6 \times 4 = 24$  sq units. Bottom rectangle:  $5 \times 3 = 15$  sq units. Total:  $24 + 15 = 39$  sq units.
- 14) **Choice A is correct.** **(3.NBT.A.2)** Round 456 to 500 and 237 to 200. Estimate:  $500 + 200 = 700$ . Mia's answer 693 is very close to 700, so it is reasonable. (Exact:  $456 + 237 = 693$  is correct.)
- 15) **The correct answer is 8 equal parts.** **(3.G.A.2)** Eighths mean there are 8 equal parts.
- 16) **Choice D is correct.** **(3.OA.B.6)** The bar is divided into 6 equal parts with a total of 48. Each part is  $48 \div 6 = 8$ . You can check:  $8 \times 6 = 48$ .
- 17) **Choices A and B are correct.** **(3.OA.A.2)**  $24 \div 3 = 8$  is the division sentence. The related multiplication is  $3 \times 8 = 24$ . Choice C confuses the divisor, choice D uses addition instead of division, and choice E swaps the dividend and divisor.
- 18) **Choice D is correct.** **(3.OA.A.4)** Divide:  $21 \div 3 = 7$  columns. Check:  $3 \times 7 = 21$ .
- 19) **Choice C is correct.** **(3.NBT.A.1)** For 245: tens digit is  $4 < 5$ , rounds to 200. For 255: tens digit is  $5 \geq 5$ , rounds to 300. So 255 becomes the larger rounded number ( $300 > 200$ ).
- 20) **Choice B is correct.** **(3.G.A.1)** A trapezoid is defined by having exactly one pair of parallel sides. This is what makes it different from a parallelogram.
- 21) **Choice A is correct.** **(3.NF.A.2)**  $\frac{1}{4}$  is one part out of four equal parts, so it is at the first tick mark from 0.
- 22) **Choice C is correct.** **(3.MD.C.5)** Multiply length by width:  $10 \times 6 = 60$  square inches.
- 23) **Choice C is correct.** **(3.NF.A.3c)**  $\frac{6}{3}$  means 6 thirds; 3 thirds make 1, so 6 thirds = 2 wholes. (A) is false:  $\frac{5}{1} = 5$ . (B) is false:  $\frac{4}{4} = 1$ . (D) is false:  $\frac{3}{1} = 3$  and  $\frac{1}{3}$  is a unit fraction.
- 24) **Choice B is correct.** **(3.MD.B.4)** Both  $50\frac{1}{2}$  and 52 pages have only 1 X each, but  $50\frac{1}{2}$  is one of the least common. The next most common is 50 pages with 2 X's, and 51 pages appears most often with 4 X's.
- 25) **The correct answer is 25 unit squares.** **(3.MD.C.5a)** A square with side length 5 inches has area  $5 \times 5 = 25$  square inches, which equals 25 unit squares.
- 26) **Choice D is correct.** **(3.OA.A.3)** Multiply:  $8 \text{ rows} \times 4 \text{ columns} = 32$  soldiers.
- 27) **Choice C is correct.** **(3.NF.A.3a)**  $\frac{4}{6} = \frac{2}{3}$  because both represent two-thirds of the poster.
- 28) **Choice A is correct.** **(3.MD.C.7c)** The distributive property breaks 5 into  $2 + 3$  and multiplies 7 by each part.
- 29) **Choice C is correct.** **(3.OA.D.8)** Step 1: Multiply for shelf books:  $3 \times 12 = 36$  books. Step 2: Add table books:  $36 + 9 = 45$  books. (Choice B is step 1 only.)



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Inventor's Workshop Note

Hi, Math Inventor!

◇ 7 practice tests. 7 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

**Inventor's Workshop**

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

**Inventor tip:** on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Inventor

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



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